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**ABSTRACT OF THE DISCLOSURE**

A cartilage and bone morphogenetic repairing composition comprising a collagen-free aqueous solution of a polyoxyethylene-polyoxypropylene and an effective amount of a bone morphogenetic protein, the molecular weight of polyoxypropylene as a constituent of said polyoxyethylene-polyoxypropylene molecular is 900 to 4,000 in a unit of Dalton (D) and the ethylene oxide content is 5 to 90% by weight of the polyoxyethylene-propoxypropylene molecule whereby the solution is liquid at 1 to 30°C and gelatinizes at about 37°C and a method of using the same.